E COLI by Modified m-TEC/ Membrane Filtration HACH 8367 (DOC316.53.001211)									
Fac	ility Name:	VELAP ID							
Assessor Name:Analyst Name:			Inspection Date						
Relevant Aspect of Standards		Method Reference	Y	N	N/A	Comments			
Records Examined: SOP Number/ Revision/ Date Analyst:							alyst:		
Sample ID: Date of Sample Prepa		ration:	Date of Analysis:						
1)	Are samples refrigerated a 0.0008% Na ₂ S ₂ O ₃ ⁵ , and a collection?	at <10°C, treated with nalyzed within 8 hours of	40 CFR 136.3 Table 1I						
2)	Are membrane filters, ster 47mm diameter, with 0.45		Page 4						
3)	Are modified m-TEC 47mi HACH catalog number 28		Page 4						
4)	Are sample volumes chos colony forming units (CFU wastewater, 20 to 80 CFU	s) per filter? (Ideally, for	Page 1						
5)	Is the work bench disinfed cloth, dilute bleach solutio dilute iodine solution, and thoroughly with soap and	n, bactericidal spray, or are hands washed	Page 1						
6)	Is a membrane filter place filtration apparatus using s		Page 2						
7)	When the sample is less t undiluted), is 10mL of ster the filter funnel before app	ile dilution water added to	Page 1						
8)	Prior to filtration, is the sar seconds to mix?	nple inverted for 30	Page 2						
9)	After the sample is filtered rinsed three times with 20 buffered dilution water?		Page 2						
10)	Is the vacuum released who prevent damage to the filter		Page 2						
11)	Is the filter aseptically rem up onto the agar plate to a the filter?		Page 2						
Note	es/ Comments:			1					

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12) Is the dish inverted and incubated at 35 ± 0.5°C for 2 hours and then at 44.5 ± 0.2°C for 22 hours?	Page 2						
13) After 22 hours, are number of red or magenta colonies counted using a 10 to 15X microscope? (Red or magenta colonies confirm the presence of E. coli.)	Page 2						
 14) Is coliform density calculated using the following equation? Coliform colonies/ 100 mL = colonies counted x100 mL sample filtered 	Page 3						
15) If growth covers the entire filtration area of the membrane, or a portion of it, and colonies are not discrete, are results reported as "Confluent Growth With or Without Coliforms"?	Page 3						
16) If the total number of colonies (coliforms plus non-coliforms) exceeds 200 per membrane or the colonies are too indistinct for accurate counting, are results reported as "Too Numerous to Count" (TNTC)?	Page 3						
17) For either situation above (#15 or #16), is a new sample run using a dilution that will give about 50 coliform colonies and not more than 200 colonies of all types?	Page 3						
 18) For nonpotable water, if no filter meets the desired minimum colony count, is the average coliform density calculated? Coliform colonies/ 100 mL= Sum of colonies in all samples x 100 Sum of volumes (mL) of all samples 	Page 3						
19) Recommendation: Pseudomonas aeruginosa is recommended as a negative control and Escherichia coli as a positive control.	Page 3						
Notes/Comments:							